

/ Descriptions

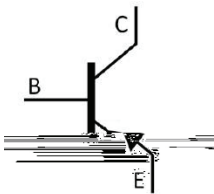
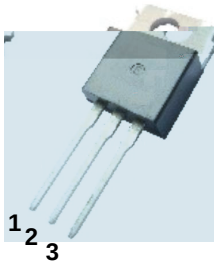
Silicon PNP transistor in a TO-220 Plastic Package.

/ Features

Complement to 2N6123.

/ Applications

Medium power linear switching applications.

/ Equivalent Circuit**/ Pinning**

PIN1 Base PIN 2 Collector PIN 3 Emitter

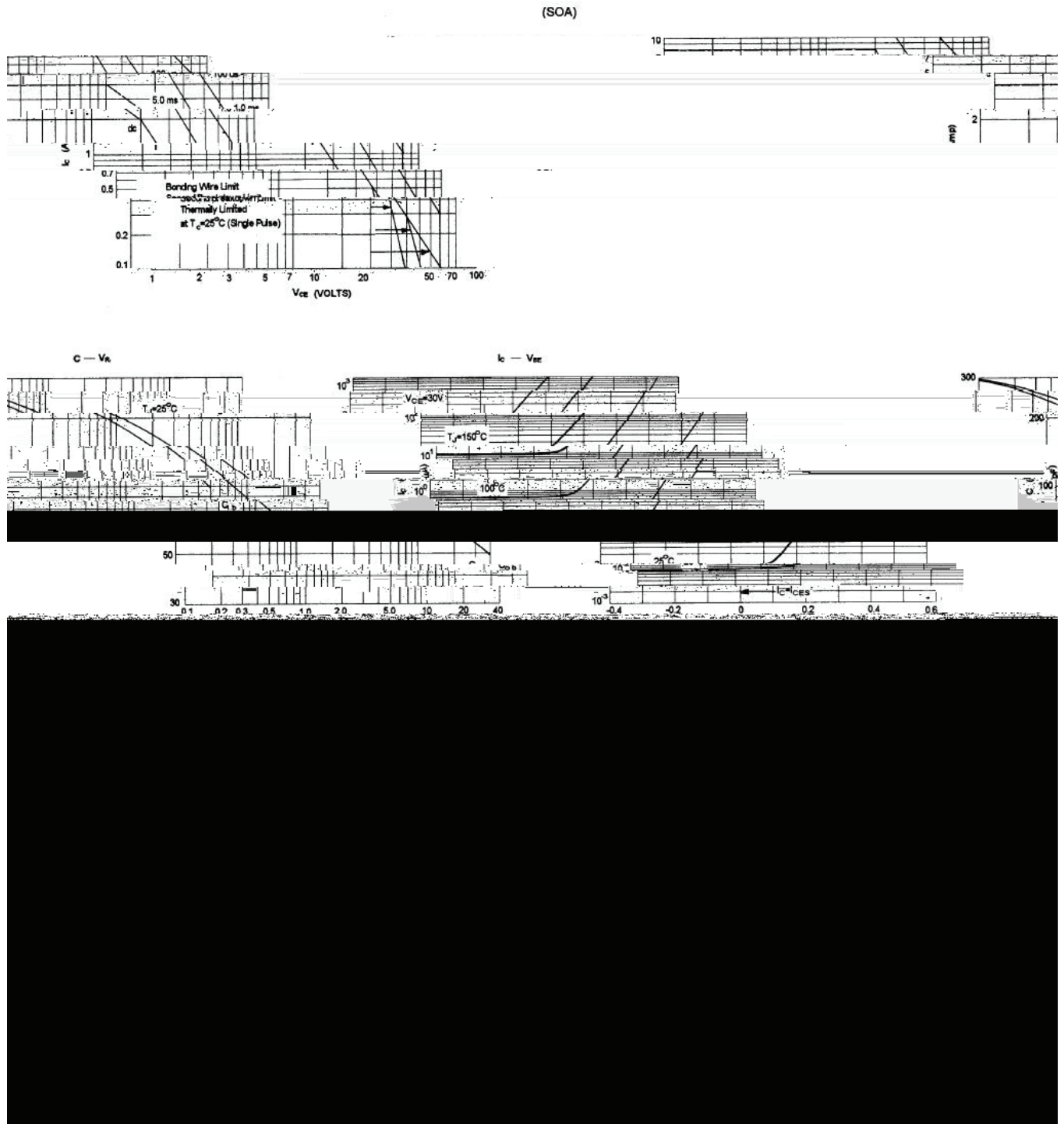
/ h_{FE} Classifications & Marking

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-80	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-4.0	A
Peak Collector Current	I_{CM}	-7.0	A
Base Current - Continuous	I_B	-1.0	A
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	40	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage*	$*V_{CEO}$	$I_C=-100\text{mA}$ $I_B=0$	-80			V
Collector to Emitter Breakdown Voltage	V_{CBO}	$I_C=-1\text{mA}$ $I_E=0$	-80			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-1\text{mA}$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-80\text{V}$ $I_E=0$			-0.1	mA

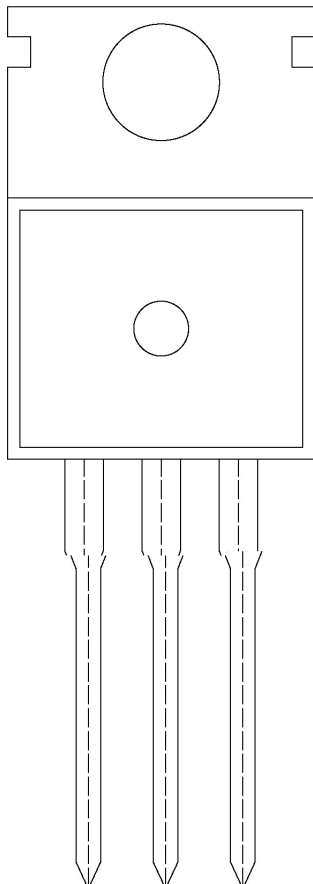
/ Electrical Characteristic Curve



The technical drawing shows two views of a mechanical component. The top view is a plan view showing a rectangular shape with rounded corners and a central circular feature. Dimensions include A (width), B (depth), C (radius), D (diameter), E (height), F (thickness), G (length), H (width), I (height), J (width), K (height), L (width), M (height), N (width), O (height), P (width), Q (height), R (width), S (height), T (width), U (height), V (width), W (height), X (width), Y (height), and Z (width). The bottom view is a side elevation showing the profile of the component. It includes dimensions for height (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) and width (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z). The drawing also shows various geometric features such as fillets, chamfers, and holes.

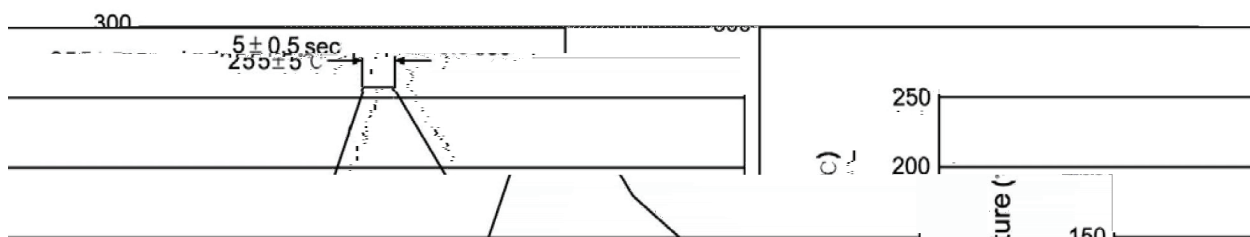
Dimensions in millimeters			Dimensions in millimeters		
Symbol	Min	Max	Symbol	Min	Max
	Δ			C	
R	3.56	3.64	B	15.7	16.1
C1	2.2	2.6	b	12.6	13.6

/ Marking Instructions



BR

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-----|-----|----|---------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255 | 5 | 5 | 0.5sec; | 2.Peak Temp.:255 5 , Duration:5 0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量			Dimension 包装尺寸 (unit: mm ³)
	只 套管	套管 盒	只 盒	